



Reference Standard

ATEX
2014/34/UE



Temperature

- 10 °C
+ 50 °C

TECHNICAL CHARACTERISTICS

Fluid temperature	Max +95 °C
Fluid	50 µm filtered air, with or without lubrication; neutral gases (versions for different fluids available upon request)
Commutation system	direct intervention poppet with cushioned seals
Ways/Positions	2/2 NC, 3/2 NC, 3/2 NO (a)
Pressure	2/2, 3/2 NC = 0 ÷ 10 bar 3/2 NO = 3 ÷ 10 bar
Control	electric
Return	mechanical spring
Connections	on sub-base / threaded on the body
Sub-base	Original Univer SPEED modular units
Coil	adjustable (360°) separate from the mechanical part

	Sub-base	G 1/8	G 1/4	CNOMO
Nominal Ø (mm)		2,1 ÷ 2,4	1,6 ÷ 6	2,1 ÷ 2,4
Nominal flow rate (Nl/min)	92 ÷ 150	100 ÷ 155	95 ÷ 650	92 ÷ 110

ELECTRIC CHARACTERISTICS

Series	U2
Coil	DB
Power consumption	11W (DC) - 10VA (AC)
Connector	AM 5111
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC
Protection degree	IP65

CE II 3GD c nA II T5-10°C ≤ Ta ≤ 45°C



Certification CSA/UL

(a) = Mechanical part designed to keep the air supply always from the body
(useful when multiple NC or NO pilots are connected in series to have a single power supply)

Sleeves AB Ø13 - with moving core

Material:

sleeve treated brass

cores and springs stainless steel

seals nitrile rubber

Codice	Function	Ø Exhaust mm	Pressure bar	Weight Kg
AB-0600	3/2 NO	2,4	3÷10	0,06
AB-0613	3/2 NC	2,4	0÷10	0,05
AB-0640	2/2 NC	-	0÷10	0,06
AB-0643	2/2 NC (a)	-	0÷10	0,06

Upon request viton seals and stainless steel sleeves (only NC options)

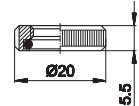
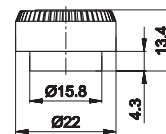
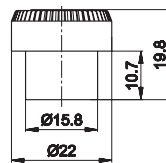
NC	NO	Detail of machining
A = Wrench 22		1 = Supply port 2 = Use

Locking rings for coils on sleeves

1

2

3

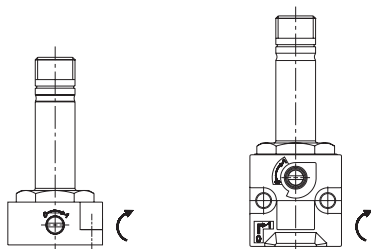


	Codice	Function	Version	Material	Coil
1	AM-5214A	3/2 NO	= scarichi radiali	technopolymer	Serie U2
2	AM-5212A	3/2 NC	= scarichi radiali	technopolymer	Serie U2
3	AM-5212B (Upon request)	2/2 NC	= scarichi aperti	brass	Serie U2

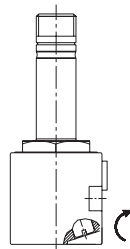
In order to convey exhausts, use version 3

Standard manual overrides with electropilots

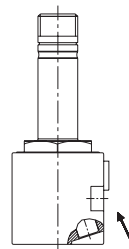
Functioning	Suitable for sleeves	Symbol/Code
1 = with 2 position screw	all NC U2 electropilots that can use manual override	⊖
2 = with impulse 1-2 position screw	only CNOMO NC U2 electropilots	⊖
3 = with button with tool	only CNOMO NC U2 electropilots	→
4 = with button, 1 position	U2 NO 3/2 electropilots	AM-5203(b)



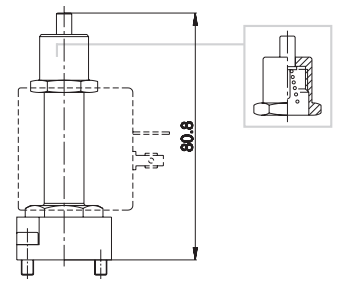
1



2



3



4

(a) = Suitable for sub-bases with diameter from 3 ÷ 6

(b) = Mounted on the 3/2 NO sleeve

⊖ = with 2 position screw

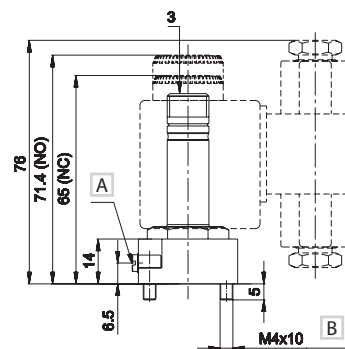
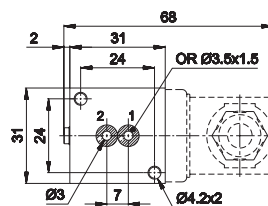
→ = with button with tool

Electric pilot valve AB 2/2 – 3/2 for mounting on SPEED CROMO base G1/8

Material:

valve body	zamak
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

Sub-base: SPEED U2. Available upon request: stainless steel sleeve - other inner diameters.



A - Manual override

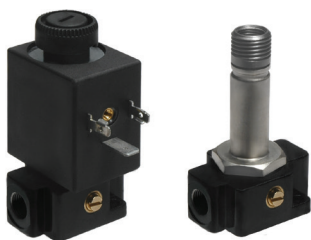
B - ISO 4762

1 = Supply port

2 = Use

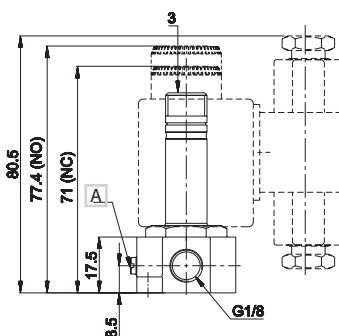
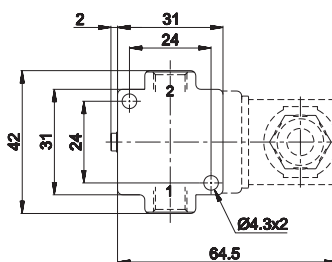
3 = Exhaust

	Code	Funzione	Ø mm	Portata NI/min.		Tempo di risposta (ms)		Manuale	Peso(b) kg
				1 → 2	2 → 3	Ecc.	Dis		
	AB-0681	3/2 NC	2,4	150	160	13	10	-	0,12
	AB-0687	3/2 NC	2,4	150	160	13	10	⊖	0,12
	AB-0722	2/2 NC	2,1	130	-	13	-	-	0,12
	AB-0728	2/2 NC	2,1	130	-	13	-	⊖	0,12
	AB-0685	2/2 NO(C)	2,4	92	148	14	10	(e)	0,13

Electropilot AB 2/2 - 3/2 G1/8

Material:

valve body	zamak
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

Available upon request: stainless steel sleeve - other inner diameters.



A - Manual override

1 = Supply port

2 = Use

3 = Exhaust

	Code	Function	Ø (d) mm	Flow rate (NI/min)		Resp. Time (ms)		Manual override	Weight kg
				1 → 2	2 → 3	Ecc.	Dis		
	AB-0751	3/2 NC	2,4	155	210	13	10	-	0,14
	AB-0757	3/2 NC	2,4	155	210	13	10	⊖	0,14
	AB-0765	2/2 NC	2,1	155	-	12	-	-	0,14
	AB-0771	2/2 NC	2,1	155	-	12	-	⊖	0,14
	AB-0755	2/2 NO(C)	2,4	100	150	14	14	(e)	0,15

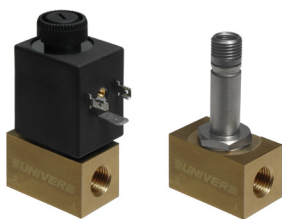
(c) = close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

(d) = the Ø shown on the 3/2 valves refers to the exhaust

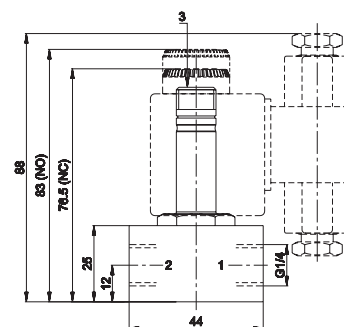
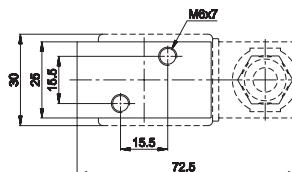
(e) = manual override on ring nut AM-5203

⊖ = with 2 position screw

Electropilots are supplied without coil and connector

Electropilot AB 3/2 G1/4

Material:

valve body	brass
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber



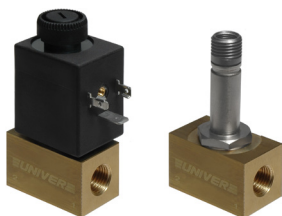
Suitable for intercepting non-aggressive liquids. Upon request: stainless steel body and sleeve.

1 = Supply port

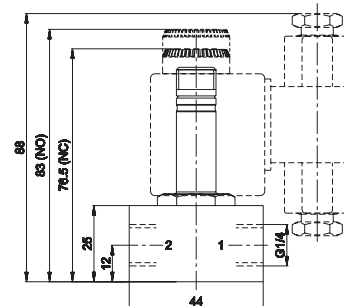
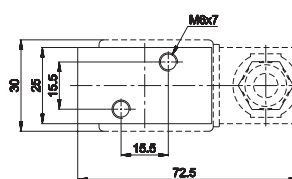
2 = Use

3 = Exhausts

	Code	Function	Ø (d) mm	Flow rate (NI/min)		Resp. Time (ms)		Manual override	Weight kg
				1 → 2	2 → 3	En.	De-en.		
	AB-0822	3/2 NC	2,1	200	210	13	11	-	0,22
	AB-0819	2/2 NO(C)	2,1	95	160	12	10	(e)	0,23

Electropilot AB 2/2 G1/4

Material:

valve body	brass
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber



Suitable for intercepting non-aggressive liquids.

1 = Supply port

2 = Use

	Code	Function	Ø (d) mm	Flow rate (NI/min)	Pressure bar	Resp. Time (ms)		Weight kg
						En.	De-en.	
	AB-0824	2/2 NC	1,6	108	0÷30	6	-	0,23
	AB-0825		2	165	0÷20	9	-	0,23
	AB-0826		2,4	210	0÷15	11	-	0,23
	AB-0827		3	280	0÷10	12	-	0,23
	AB-0828		3,5	350	0÷9	-	10	0,23
	AB-0829		4	450	0÷8	-	13	0,23
	AB-0830		4,5	500	0÷7	-	13	0,23
	AB-0831		5	550	0÷6,5	-	16	0,23
	AB-0832		5,5	600	0÷6	-	21	0,23
	AB-0833		6	650	0÷5	-	29	0,23

Coil U2 - 17 VA

Code
Voltage

DB-0607

24V AC - 50/60 Hz - 17 VA

DB-0608

110V AC - 50/60 Hz - 17 VA

DB-0610

220V AC - 50/60 Hz - 17 VA

(c) = close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

(d) = the Ø shown on the 3/2 valves refers to the exhaust

(e) = manual override on ring nut AM-5203

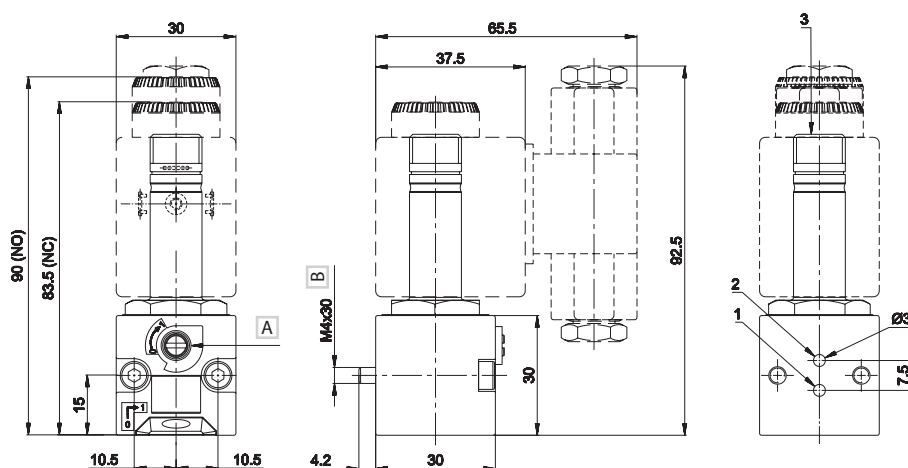
⊖ = with 2 position screw

Electropilots are supplied without coil and connector

Electric pilot valve AB 2/2 – 3/2 CNOMO for mounting on Speed CNOMO base G1/8

Material:

valve body	technopolymer
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber



Available upon request: zamak valve body, stainless steel sleeve, other inner diameters.

A - Override manual

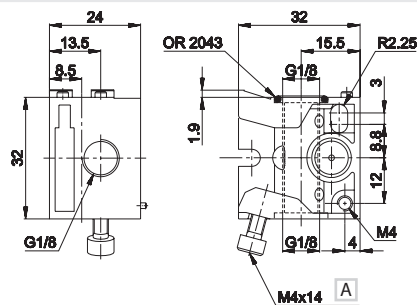
B - ISO 4762

1 = Supply port

2 = Use

3 = Exhausts

	Code	Function	Ø (d) mm	Flow rate (Nl/min)		Resp. Time (ms)		Manual override	Weight kg
				1 → 2	2 → 3	En.	De-en.		
	AB-0885	3/2 NC	2,4	110	170	13	12	⊖	0,08
	AB-0886	2/2 NC	2,1	115	-	12	-	⊖	0,08
	AB-0888	3/2 NO(C)	2,4	92	148	13	10	(e)	0,09

Modular sub-base, "SPEED CNOMO" series, G1/8


A - ISO 4762

Advantages

The original UNIVER "Speed" series was realized to solve some operational problems

- Possibility of defining the number of sub-bases at the moment of use
- Possibility of freely increasing or reducing the number of elements
- Quick assembly with special screw (built-in) standard supplied
- Reduction of stock holding
- Easy technical intervention

Air supply is rotated by 90° in comparison with side consumption, standard (built-in) screw and O-Ring

When assembling the manifold, put the bases on a flat surface and tighten the screw until the manifold is perfectly aligned.

Code	Electropilot	Connections	Material	Weight(b) kg
AB-0900	Sub-Base SPEED CNOMO	G 1/8	zama	0,075

(c) = close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

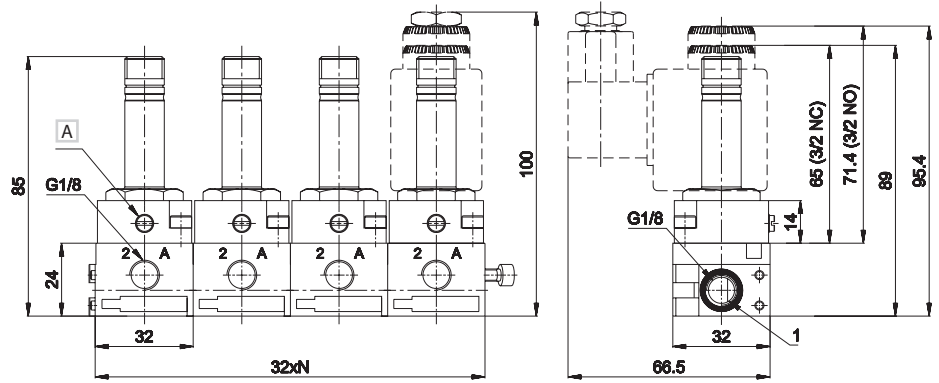
(d) = the Ø shown on the 3/2 valves refers to the exhaust

(e) = manual override on ring nut AM-5203

⊖ = with 2 position screw

Electropilots are supplied without coil and connector

Subbase: Example of use of SPEED CROMO G1/8 with AB pilot



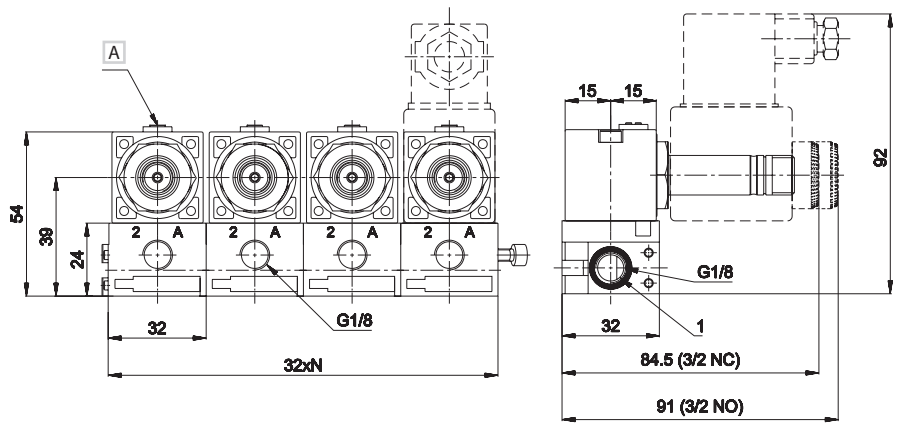
A - Manual override

1 = Supply port

2 - A = Use

N = Number of valve position

Subbase: Example of use of SPEED CROMO G1/8 with AB CROMO actuator



A - Manual override

1 = Supply port

2 - A = Use

N = Number of valve position

Coil

Possibility of replacement without intervention in the pneumatic circuit

Other voltages available upon request

360° rotation on the pilot. Coil winding: H class

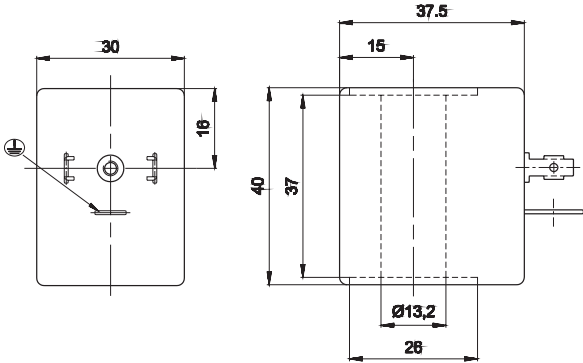
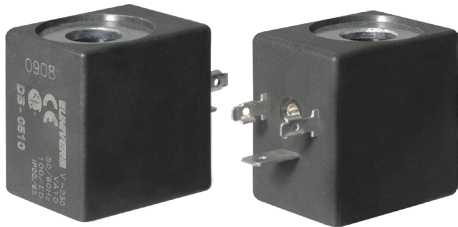
Ambient temperature: -10 ÷ +45 °C. Fluid temperature: -10 ÷ +95 °C.

The solenoid valves functioning with 100V-230V must be incorporated (EN60204-1)

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated.

Protection class IP65, if used with connector.

U2 30 mm coil to be used with AB electropilot

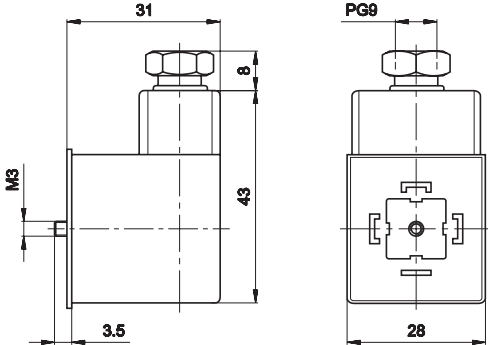


Code	Duty cycle ED(a) %	Power consumption W		Tension tolerance %	Rated voltage	Weight Kg
		Hold	Hold			
DB-0501	100	11	11	±10	12 V DC	0,06
DB-0502	100	11	11	±10	24 V DC	0,06
DB-0507	100	10 VA (Max)	16 VA (Max)	±10	24 V AC/50-60 HZ	0,06
DB-0509	100	10 VA (Max)	16 VA (Max)	±10	110 V AC/50-60 HZ	0,06
DB-0510	100	10 VA (Max)	16 VA (Max)	±10	230 V AC/50-60 HZ	0,06

(a) = 110V - 230V solenoid valves must be built-in (EN-60204-1)

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated

DIN 43650 Connector for series U2/U3



Coil series U2/U3

AM-5111 Protection according to IP 65. PG9 cable connection. 360° rotation on the coil.

LED available upon request.